

Attachment A to Resolution No. R4-2014-0xx

Basin Plan Amendment Incorporating an Averaging Period for Chloride Water Quality Objectives in Three Reaches and New Conditional Site Specific Objectives for Chloride in Two Reaches of the Upper Santa Clara River

The following language will be modified in Chapter 3, Water Quality Objectives of the Basin Plan, under “Mineral Quality”¹:

Revise Table 3-10 “Water Quality Objectives for Selected Constituents in Inland Surface Waters” as follows:

Add footnote “m” under column labeled “Chloride (mg/L)” for the following rows:

Between Bouquet Canyon Road Bridge and West Pier Highway 99
Between West Pier Highway 99 and Blue Cut gaging station
Between Blue Cut gaging station and Piru Creek

Add description of footnote “m” at the bottom of the table

- m. *These objectives apply as a 3-month rolling average. The 3-month averaging period for these objectives was established through a Basin Plan amendment adopted by the Regional Board on October 9, 2014 (Resolution No. R14-0xx) and went into effect on [insert date].*

¹ Note that table numbering is according to the numbering in the Non-Regulatory Amendment to the Basin Plan to Administratively Update Chapter 3: “Water Quality Objectives” by Incorporating Previously Adopted Amendments and Updated Tables (Resolution No. R13-003, adopted by the Regional Board on May 2, 2013).

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Revise Table 3-10a and associated text as follows:

Table 3-10a. Conditional Site Specific Objectives for Chloride in Upper Santa Clara River Watershed Surface Waters

WATERSHED/STREAM REACH	<u>REACH NUMBER</u>	Chloride (mg/L)
Upper Santa Clara River Watershed:		
Between Bouquet Canyon Road Bridge and West Pier Highway 99	<u>6</u>	150 (123-month rolling average)
<u>Between West Pier Highway 99 and the Valencia WRP outfall 001</u>	<u>5</u>	<u>150</u> (3-month rolling average)
Between West Pier Highway 99 and Blue Cut gaging station	150 (12-month average)	
Between Blue Cut gaging station and confluence of Piru Creek	117/130 ^a (3-month average) ^b	

- a. The conditional site specific objective of 130 mg/L applies only if the following conditions and implementation requirements are met:
1. Water supply chloride concentrations measured in Castaic Lake are ≥ 80 mg/L.
 2. The Santa Clarita Valley Sanitation District (SCVSD) shall provide supplemental water to salt sensitive agricultural uses that are irrigated with surface water during periods when Reach 4B (between Blue Cut gaging station and confluence of Piru Creek) surface water exceeds 117 mg/L.
 3. By May 4, 2020, the 10-year cumulative net chloride loading above 117 mg/L (CNCI₁₁₇)¹ to Reach 4B of the Santa Clara River (SCR), calculated annually, from the SCVSD Water Reclamation Plants (WRPs) shall be zero or less.

$${}^1\text{CNCI}_{117} = \text{Cl}_{(\text{Above } 117)} - \text{Cl}_{(\text{Below } 117)} - \text{Cl}_{(\text{Export EWs})}$$

Where:

$$\text{Cl}_{(\text{Above } 117)} = [\text{WRP Cl Load}^1 / \text{Reach 4B Cl Load}^2] * [\text{Reach 4B Cl Load}_{>117}^3]$$

$$\text{Cl}_{(\text{Below } 117)} = [\text{WRP Cl Load}^1 / \text{Reach 4B Cl Load}^2] * [\text{Reach 4B Cl Load}_{\leq 117}^4]$$

$$\text{Cl}_{(\text{Export EWs})} = \text{Cl Load Removed by Extraction Wells}$$

¹ WRP Cl Load is determined as the monthly average chloride (Cl) concentration multiplied by the monthly average flow measured at the Valencia WRP.

² Reach 4B Cl Load is determined as the monthly average Cl concentration at SCVSD Receiving Water Station RF multiplied by the monthly average flow measured at USGS Gauging Station 11109000 (Las Brisas Bridge).

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³Reach 4B Cl Load_{>117} means the calculated Cl load to Reach 4B when monthly average Cl concentration in Reach 4B is above 117 mg/L.

⁴Reach 4B Cl Load_{≤117} means the calculated Cl load to Reach 4B when monthly average Cl concentration in Reach 4B is below or equal to 117 mg/L.

4. The chief engineer of the SCVSD signs under penalty of perjury and submits to the Regional Board a letter documenting the fulfillment of conditions 1, 2, and 3.

b. The averaging period for the critical condition SSO of 130 mg/L may be reconsidered based on results of chloride trend monitoring after the alternative water resources management (AWRM) system is applied.

The conditional site specific objectives for chloride in the surface water between Bouquet Canyon Road bridge and West Pier Highway 99, and between West Pier Highway 99 and the Valencia WRP outfall 001 and Blue Cut gaging station, and between Blue Cut gaging station and confluence of Piru Creek shall apply and supersede the existing water quality objectives in Table 3-8-10 only when flow weighting projects chloride load reductions and/or chloride export projects are in operation by the SCVSD according to the implementation section in Table 7.6-1 of Chapter 7.

Remove Table 3-13.a and associated text as follows:

Table 3-13a. Conditional Site Specific Objectives for Selected Constituents in Regional Groundwaters

DWR Basin No.	BASIN	Chloride (mg/L)
4-4	Ventura Coastal Lower area east of Piru Creek [†]	150 (rolling 12-month average)
4-4.07	Eastern Santa Clara Santa Clara—Bouquet & San Francisquito Canyons Castaic Valley	150 (rolling 12-month average) 150 (rolling 12-month average)

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- ~~1. This objective only applies to the San Pedro formation. Existing objective of 200 mg/L applies to shallow alluvium layer above San Pedro formation.~~

~~The conditional site specific objectives for chloride in the groundwater in Santa Clara—Bouquet & San Francisquito Canyons, Castaic valley, and the lower area east of Piru Creek (San Pedro Formation) shall apply and supersede the existing regional groundwater quality objectives only when chloride load reductions and/or chloride export projects are in operation by the SCVSD according to the implementation section in Table 7.6-1 of Chapter 7.~~

TENTATIVE